

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 46614

Title: Neural regeneration by regionally induced stem cells within post-stroke brains:
Novel therapy perspectives for stroke patients

Reviewer's code: 03947786

Reviewer's country: China

Science editor: Ying Dou

Reviewer accepted review: 2019-05-07 03:49

Reviewer performed review: 2019-05-14 03:06

Review time: 6 Days and 23 Hours

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input checked="" type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input checked="" type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

This mini review introduced a novel ischemia-induced stem cells-based therapy strategy for treating CNS diseases. Under the field of iNSPCs/iSCs derived from brain ischemic stroke, this paper proposed some hypotheses, mainly presented a lot of questions, such



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as the origin of iNSPCs? The relationship of brain pericytes and iNSPCs? The connection between iNSPCs and resident glia? The traits of brain multipotent stem cells (MSCs) or iNSPCs/iSCs? etc. Finally, they suggested two strategies of iNSPCs/iSCs application: exogenous iNSPCs/iSCs transplantation and endogenous iNSPCs/iSCs activation. However, there are much more problems about ischemia-induced stem cells need to be solved, for example whether they really exist, and what are the traits and potential mechanisms of iNSPCs/iSCs in brain.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ No

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 46614

Title: Neural regeneration by regionally induced stem cells within post-stroke brains:
Novel therapy perspectives for stroke patients

Reviewer's code: 03086928

Reviewer's country: Spain

Science editor: Ying Dou

Reviewer accepted review: 2019-05-16 09:22

Reviewer performed review: 2019-05-30 10:57

Review time: 14 Days and 1 Hour

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language	(High priority)	<input type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The work by Nakagomi et al. is an extremely interesting work, well organized, fluent, logical and readable. This work summarized the most recent approaches in the field of neural regeneration, specifically in patients that have suffered a stroke and reflects the

most recent progresses in this field. Acceptance is recommended for the manuscript. However, there are some minor suggestions that, from this reviewer point of view, would improve the understanding of the manuscript for readers outside this very specific field. Minor comments. 1. In the introduction the authors distinguish between mesenchymal stem cells and adipose-derived stem cells. Since adipose derived stem cells are as specific type of mesenchymal stem cells, these terms should be substituted by Bone marrow mesenchymal (BM-MSCs) stem cells and adipose tissue derived mesenchymal stem cells (AD-MSCs). 2. The authors state in the introduction that "lack of data (on whether the stem cell based therapies by NSPCs are clinically useful) may be due to the NSPCs being derived not from pathological but from normal conditions". The authors should explain the rationale of undergoing research in NSCPs in pathological conditions (iNSCPs) as an alternative of researching these cells in normal conditions (NSCPs). 3. The authors mention the failure of a study using genetic mapping by the Cre-loxP system to demonstrate that pericytes (TBx18+) function as multipotent stem cells in vivo following mild injury. Is there any theory on why this method failed? Was it a question of homming, engraftment...? .The downsides of the Cre-LoxP approach should be mentioned briefly in the text, as it would help the reader to understand the context. A reference is not enough. 4. As a general rule of thumb, words in latin (in vivo, in vitro) should appear in italics.

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

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